Title (en)

RADIATION THERAPY PLANNING OPTIMIZATION AND VISUALIZATION

Title (de)

PLANUNGSOPTIMIERUNG UND VISUALISIERUNG EINER STRAHLENTHERAPIE

Title (fr)

OPTIMISATION ET VISUALISATION DE LA PLANIFICATION DE LA RADIOTHÉRAPIE

Publication

EP 3427796 A1 20190116 (EN)

Application

EP 18188228 A 20150909

Priority

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- EP 17197703 A 20150909
- EP 15774984 A 20150909
- IB 2015056884 W 20150909

Abstract (en)

A radiation planning system includes a predictor-corrector optimizer unit which computes a predicted dose based on a collection of control points with a current approximate dose, each control point with a corresponding set of leaf positions, and determines an additional control point with a corresponding set of leaf positions based on a difference of the predicted fluence and the current approximate fluence through a least cost or shortest path in a layered graph structure of realizable leaf positions. Tools are described to help a planner to evaluate the effect of parameter changes to the current plan based on an identified zone of influence. The planner interactively views the current plan based on a visualization of the plan objectives and correlations between the objectives.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (applicant)

EP 13169709 A 20130529

Citation (search report)

- [I] US 2008278495 A1 20081113 - MINAMIDE MASAHIKO [JP], et al
- [A] WO 2013049845 A2 20130404 - VARIAN MEDICAL SYSTEMS INT AG [CH], et al

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